Stand Out. In A Good Way.

Landscapes get noticed. We’ll help you stand out for the right reasons.
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Placing an Order Has Never Been Easier:

Our Customer Support Center is your link to our team of Sales Support Specialists (SSS). They are ready and willing to support you in any way they can. Specifically, our team can answer any questions you may have about orders, shipping, invoicing or marketing support.

Phone: Call to talk with a Sales Support Specialist
800.356.SEED

E-mail: Send your orders to orders@laxseed.com and our team will confirm it with you before shipping.

General questions can also be sent to info@laxseed.com

We Deliver More Than Seed

Premium seed isn’t enough. We also bring effective marketing solutions plus training, tools & tips to help you succeed.
LOOK FOR THESE VALUE-ADDED TRAITS OR CERTIFICATIONS NEXT TO EARTH CARPET® PRODUCTS IN THIS GUIDE

**Spreading Technology**
- Many perennial ryegrass products in our portfolio benefit from spreading technology, featuring early development of aggressively spreading rhizomes and rapid tillering. These spreading traits boast improved wear tolerance and recovery plus excellent density and persistence.

**XRE Spreading Tall Fescue**
- Many products in our portfolio benefit from “XRE Spreading Tall Fescue” varieties, which feature early expression of strong, aggressively spreading rhizomes. These products exhibit increased wear tolerance and persistence under high-use pressure.

**XRE + Spreading Tall Fescue**
- Look for the “XRE +” icon throughout this book for products with tall fescue varieties featuring even earlier, more aggressive and rapid tillering traits and rhizome expression. These products exhibit superior density, excellent wear tolerance and rapid recovery.

**4turf®**
- Perennial ryegrass varieties are developed to be strong, deep-rooting and tolerant of stress.

La Crosse Seed + DLF: Seeds & Science, Delivered

DLF Pickseed acquired La Crosse Seed in 2018, aligning us with DLF Seeds, the global leader in research, development, production and distribution of turfgrass and other seed.

Still the La Crosse Seed you know and love, we are now part of a worldwide organization with a tremendous passion for innovation and a commitment to helping us deliver the absolute best turf products.

As disease, climate and weather patterns continue to change, new genetics are needed to succeed. DLF, including its Seed Research of Oregon brand, leads the industry in developing products with useful turf traits found throughout our Earth Carpet® lineup:

- Spreading tall fescue & perennial ryegrass
- 4Turf® tetraploid perennial ryegrass
- Salt tolerance
- Longer active growing seasons
- Faster germination & establishment

**STAND OUT. IN A GOOD WAY.**
As a turf leader for many years, we know how to transform a lawn. Our quality mixes are known to produce beautiful lawns that you’ll take pride in and create curb appeal that adds value.

**SWEAT LESS. SPEND LESS.**
Our seed not only delivers consistent results, but also saves money and time. Quality seed means less cost and labor on water, fertilizer, pest control and excessive mowing. Higher quality turf with less work. Guaranteed.

Custom Mixes & Private Label

La Crosse Seed offers custom mixing capabilities and private label opportunities to meet your specific needs. Contact us to learn more.
Conservation Seed Solutions

WANT HEALTHY, SUSTAINABLE TURF? THE SCIENCE IS IN THE SEED®

La Crosse Seed is committed to helping you get more from the soil while conserving resources. For Earth Carpet®, that means offering the latest genetics to help you grow “healthy turf” that requires less inputs.

Better seed means healthier, dense, sustainable turf that when cared for and fed correctly leads to conservation through:

- Less fertilizer
- Less water
- Less insecticide
- Less fungicide
- Less herbicide
- Less re-seeding
- Cooler ground
- Less water
- Less re-seeding
- Less insecticide
- Less fungicide
- Less herbicide
- Less re-seeding
- Cooler ground

The Alliance for Low Input Sustainable Turf is a non-profit, university and industry, cooperative that serves to test, identify and promote varieties to consumers that maintain acceptable turf quality while requiring reduced water, chemical and fertility inputs. To become an “A-List Approved Variety”, a variety must have demonstrated superior performance in A-List trials.

A partial list of native seed options available through La Crosse Seed includes:

**GRASSES**
- Big Bluestem
- Blue Grama
- Buffalograss
- Canada Wildrye
- Eastern Gamagrass
- Green Needlegrass
- Indiangrass
- Intermediate Wheatgrass
- Junegrass
- Little Bluestem

**FORBS**
- Black-Eyed Susan
- Ox-Eye Sunflower
- Maximilian Sunflower
- Partridge Pea
- Purple Coneflower
- Showy Tick Trefoil
- Wild Bergamot
- Yellow Coneflower

**MIXES**
- Color Iowa Wild
- EcoGrass Short
- EcoGrass Tall
- Flood Plain
- Knee-High Wildflower
- Low-Grow Wildflower
- Midwest Wildflower
- Perennial Wildflower Pollinator
- Shady Wildflower

CUSTOM CRP MIXING

La Crosse Seed offers custom mixing capabilities to meet any conservation needs. Contact us at info@laxseed.com or visit our website to learn more.

For product & management information, visit lacrosseseed.com
The Hidden Costs of Old, Common Seed

If you take a long, hard look at some of our competitors, you’ll notice they’re still peddling the same seed mixes they’ve been selling for 50 years:

- Common Kentucky bluegrass, perennial ryegrass, fine fescue & tall fescue
- Old seed varieties that were once popular but are now considered the same as commons, including 98/85 Kentucky bluegrass, Linn perennial ryegrass & Kentucky 31 tall fescue

SADLY, YEAR AFTER YEAR, THE CUSTOMERS WHO BUY THESE SEEDS ARE CONFRONTED WITH THE SAME OLD HEADACHES:

- No disease resistance — red thread, dollar spot, rust, necrotic ring spot, brown patch & others are par for the course
- No insect resistance — sod webworm, cutworms, billbugs & chinch bugs rear their ugly heads
- No drought or heat stress tolerance
- No wear & tear tolerance — impractical for athletic events or backyard games

If all you’re looking at is price per bag, common grass seed looks like a bargain compared to Earth Carpet®. However, common seed requires more labor and management:

- More fertilizer
- More water
- More insecticide
- More fungicide
- More herbicide
- More reseeding

YOUR CUSTOMERS DESERVE BETTER!

Some of our competitors’ lawn seed mixes haven’t changed in 50 years. Genetically speaking, some seed varieties are still trapped in the 1950’s.

Earth Carpet® Versus Common Seed Cost Comparison For One Complete Season (Seeding Year)

(THese costs are approximate, based on a 10,000 sq. ft. lawn)

Real Cost of Common Seed

<table>
<thead>
<tr>
<th>STEP</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Seeding (70 lbs @ $2.80/lb)</td>
<td>$196.00</td>
</tr>
<tr>
<td>Starter Fertilizer Application (40 lbs @ $.37/lb)</td>
<td>$14.80</td>
</tr>
<tr>
<td>Second Fertilizer Application (40 lbs @ $.37/lb)</td>
<td>$14.80</td>
</tr>
<tr>
<td>Third Fertilizer Application (40 lbs @ $.37/lb)</td>
<td>$14.80</td>
</tr>
<tr>
<td>Insecticide</td>
<td>$55.44</td>
</tr>
<tr>
<td>Fungicide</td>
<td>$57.60</td>
</tr>
<tr>
<td>Weed &amp; Feed Application in the Fall (or Herbicide)</td>
<td>$25.38</td>
</tr>
<tr>
<td>Re seeding (35 lbs @ $2.80/lb)</td>
<td>$98.00</td>
</tr>
<tr>
<td>Fertilizer for Re seeding (35 lbs @ $.37/lb)</td>
<td>$12.95</td>
</tr>
<tr>
<td>SEASON TOTAL</td>
<td>$489.77</td>
</tr>
</tbody>
</table>

Earth Carpet® Seed

<table>
<thead>
<tr>
<th>STEP</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Seeding (70 lbs @ $3.50/lb)</td>
<td>$245.00</td>
</tr>
<tr>
<td>Starter Fertilizer Application (40 lbs @ $.37/lb)</td>
<td>$14.80</td>
</tr>
<tr>
<td>Second Fertilizer Application (40 lbs @ $.37/lb)</td>
<td>$14.80</td>
</tr>
<tr>
<td>Weed &amp; Feed Application in the Fall (or Herbicide)</td>
<td>$25.38</td>
</tr>
<tr>
<td>SEASON TOTAL</td>
<td>$299.98</td>
</tr>
</tbody>
</table>

*THIS CHART IS AN ESTIMATION. IT IS SUBJECT TO CHANGE AS PRICING CHANGES.
## Professional Landscape Mixes

Earth Carpet® professional mixes are optimal performers under many conditions. These premium mixes feature elite turf varieties to ensure your lawn or professional landscape project stands out for the right reasons.

### Choice Sun and Shade®

- **Available in 5, 20 & 50#**
- **SEEDING LBS/1,000 SQ FT**
- **NEW**
  - 4 - 6
- **OVER**
  - 2 - 4

<table>
<thead>
<tr>
<th>STRESS TOLERANCE</th>
<th>HEAT</th>
<th>WEAR</th>
<th>DROUGHT</th>
<th>TRAFFIC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NEW</strong></td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td><strong>OVER</strong></td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Ideal for establishing premium lawns or upgrading existing turf
- Fast establishment & strong winter survival
- Excellent for new lawns or upgrading existing turf
- Improved varieties for better color, shade tolerance & disease resistance

#### Composition
- **40%** Kentucky Bluegrass (3 Elite Varieties)
- **30%** Perennial Ryegrass (3 Elite Varieties)
- **15%** Creeping Red Fescue (1 Elite Variety)
- **15%** Chewings Fescue (1 Elite Variety)

### Spartan® Grade A

- **Available in 5, 20 & 50#**
- **SEEDING LBS/1,000 SQ FT**
- **NEW**
  - 4 - 6
- **OVER**
  - 2 - 4

<table>
<thead>
<tr>
<th>STRESS TOLERANCE</th>
<th>HEAT</th>
<th>WEAR</th>
<th>DROUGHT</th>
<th>TRAFFIC</th>
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</thead>
<tbody>
<tr>
<td><strong>NEW</strong></td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>4</td>
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<tr>
<td><strong>OVER</strong></td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Ideal for establishing premium lawns or upgrading existing turf
- Establishes quickly & recovers rapidly to wear
- Improved varieties for improved results
- Thick turf with moderate to high maintenance, gray leaf spot tolerance

#### Composition
- **40%** Kentucky Bluegrass (2 Elite Varieties)
- **20%** Perennial Ryegrass (2 Elite Varieties)
- **20%** Creeping Red Fescue (1 Elite Variety)
- **20%** Chewings Fescue (1 Elite Variety)

### Madison Parks®

- **Available in 5, 20 & 50#**
- **SEEDING LBS/1,000 SQ FT**
- **NEW**
  - 4 - 6
- **OVER**
  - 2 - 4

<table>
<thead>
<tr>
<th>STRESS TOLERANCE</th>
<th>HEAT</th>
<th>WEAR</th>
<th>DROUGHT</th>
<th>TRAFFIC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NEW</strong></td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td><strong>OVER</strong></td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Ideal for establishing premium lawns or upgrading existing turf
- Establishes quickly & permanently
- Improved varieties for better color, shade tolerance & disease resistance

#### Composition
- **50%** Kentucky Bluegrass (4 Elite Varieties)
- **25%** Perennial Ryegrass (1 Elite Variety)
- **25%** Creeping Red Fescue (1 Elite Variety)

### Wear-n-tear™

- **Available in 5, 20 & 50#**
- **SEEDING LBS/1,000 SQ FT**
- **NEW**
  - 4 - 6
- **OVER**
  - 2 - 4

<table>
<thead>
<tr>
<th>STRESS TOLERANCE</th>
<th>HEAT</th>
<th>WEAR</th>
<th>DROUGHT</th>
<th>TRAFFIC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NEW</strong></td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td><strong>OVER</strong></td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Ideal for establishing premium lawns or upgrading existing turf
- Withstands abuse of continual use & high traffic
- Fast establishment with low maintenance needs

#### Composition
- **40%** Kentucky Bluegrass (2 Elite Varieties)
- **40%** Perennial Ryegrass (2 Elite Varieties)
- **10%** Creeping Red Fescue (1 Elite Variety)
- **10%** Chewings Fescue (1 Elite Variety)
### General Landscape Mixes

Our Earth Carpet® general landscape mixes offer quality, time-tested products that fit a variety of conditions and budgets. These options are great for general landscape projects including home lawns, parks, playgrounds, and more.

**SEEDING LBS/1,000 SQ FT**

<table>
<thead>
<tr>
<th>Mix</th>
<th>SEEDING LBS/1,000 SQ FT</th>
<th>STRESS TOLERANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NEW OVER</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>park place</td>
<td>4 - 6 2 - 4</td>
<td></td>
</tr>
<tr>
<td>sunny place</td>
<td>4 - 6 2 - 4</td>
<td></td>
</tr>
<tr>
<td>quick-2-gro</td>
<td>4 - 6 2 - 4</td>
<td></td>
</tr>
<tr>
<td>michigan green</td>
<td>4 - 6 2 - 4</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Heat</th>
<th>Wear</th>
<th>Drought</th>
<th>Traffic</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>4</td>
<td>3</td>
<td>3</td>
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<td>3</td>
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<td>3</td>
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<td>3</td>
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</tbody>
</table>

### park place

- **AVAILABLE IN 5, 20 & 50#**
- Ideal for home lawns, parks & school grounds
  - Economical mix designed for sun & light shade
  - Fast to establish & easy to maintain
  - Able to perform under varying conditions

- **50% Kentucky Bluegrass (LXQ 110 Brand)
  25% Perennial Ryegrass (LXQ 220 Brand)
  25% Creeping Red Fescue (LXQ 330 Brand)**

### sunny place

- **AVAILABLE IN 5, 20 & 50#**
- Ideal for home lawns & commercial landscapes
  - Combines quality turf with long-term persistence
  - Winter-hardy varieties for use in Northern areas
  - Great for overseeding bare spots or thin areas

- **33% Kentucky Bluegrass (LXQ 110 Brand)
  34% Perennial Ryegrass (LXQ 220 Brand)
  33% Creeping Red Fescue (LXQ 330 Brand)**

### quick-2-gro

- **AVAILABLE IN 5, 20 & 50#**
- Ideal for areas needing quick establishment
  - Mix performs well in full sun to light shade
  - Germinates quickly & grows rapidly
  - Excellent choice when fast results are required

- **25% Kentucky Bluegrass (LXQ 110 Brand)
  25% Perennial Ryegrass (LXQ 220 Brand)
  25% Creeping Red Fescue (LXQ 330 Brand)
  25% Annual Ryegrass**

### michigan green

- **AVAILABLE IN 20 & 50#**
- Ideal for the Great Lakes Region & easy on your budget
  - Formulated to be easy on your budget
  - Thrives in either sun or shade
  - May require overseeding in a few years

- **15% Kentucky Bluegrass (LXQ 110 Brand)
  15% Perennial Ryegrass (LXQ 220 Brand)
  40% Creeping Red Fescue (LXQ 330 Brand)
  30% Annual Ryegrass**

### Rating Scale: 1 = Worst, 5 = Best

**Elite Varieties** - Many of our mixes feature elite turf varieties. An “elite” variety is an improved variety holding the most distinguished characteristics of that species. For optimal performance, look for mixes containing elite varieties in our Earth Carpet® seed guide.
Kentucky Bluegrass & Perennial Ryegrass Mixes & Blends

Kentucky Bluegrass and perennial ryegrass based Earth Carpet® mixes perform under stress from heat and wear, and are ideal for home lawns, commercial turf, golf courses, athletic fields, playgrounds and more.

<table>
<thead>
<tr>
<th>SEEDING LBS/1,000 SQ FT</th>
<th>STRESS TOLERANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEW OVER</td>
<td>HEAT   WEAR   DROUGHT TRAFFIC</td>
</tr>
<tr>
<td>blue carpet®</td>
<td>4      5      3      5</td>
</tr>
<tr>
<td>AVAILABLE IN 20 &amp; 50#</td>
<td>2 - 4   1 - 3</td>
</tr>
<tr>
<td>pro-sports®</td>
<td>4      5      3      5</td>
</tr>
<tr>
<td>AVAILABLE IN 20 &amp; 50#</td>
<td>3 - 5   2 - 3</td>
</tr>
</tbody>
</table>

**Ideal for golf course tees, fairways & fine home lawns**
- A “fairway quality” blend with a “sod-look”
- Provides a lush, dense, intense dark green turf
- Responds well with regular maintenance

**Ideal for sports fields & other high performance areas**
- Dense, durable turf with gray leaf spot tolerance
- Germinates quickly & establishes easily
- Provides unparalleled results in managed turf

**100% Kentucky Bluegrass (4 - 5 Elite Varieties)**

**80% Kentucky Bluegrass (4 Elite Varieties)**
**20% Perennial Ryegrass (2 Elite Varieties)**

<table>
<thead>
<tr>
<th>SEEDING LBS/1,000 SQ FT</th>
<th>STRESS TOLERANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEW OVER</td>
<td>HEAT   WEAR   DROUGHT TRAFFIC</td>
</tr>
<tr>
<td>sports park® OS</td>
<td>4      5      3      4</td>
</tr>
<tr>
<td>AVAILABLE IN 20 &amp; 50#</td>
<td>3 - 5   2 - 3</td>
</tr>
<tr>
<td>champion</td>
<td>4      5      3      4</td>
</tr>
<tr>
<td>AVAILABLE IN 5, 20 &amp; 50#</td>
<td>6 - 8   3 - 5</td>
</tr>
</tbody>
</table>

**Ideal for renovating athletic fields & playgrounds**
- Contains gray leaf spot perennial ryegrasses
- Thick turf with moderate to high maintenance
- Establishes quickly & recovers rapidly to wear

**Ideal for renovating athletic fields & high traffic areas**
- Excellent performance blend of perennial ryegrasses
- Provides durable turf with gray leaf spot tolerance
- Improved genetic color, fine texture & mowability

**50% Kentucky Bluegrass (3 Elite Varieties)**
**50% Perennial Ryegrass (2 Elite Varieties)**

**50% Perennial Ryegrass (2 Elite Varieties)**

**100% Perennial Ryegrass (4 Elite Varieties)**
Shade & Slope Mixes
Our specialty turf mixes, designed for shade and slopes, include elite varieties that thrive under full sun or deep shade – perfect for neglected soil and shady areas.

<table>
<thead>
<tr>
<th>SEEDING</th>
<th>STRESS TOLERANCE</th>
<th>SEEDING</th>
<th>STRESS TOLERANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>LBS/1,000 SQ FT</td>
<td>HEAT</td>
<td>WEAR</td>
<td>DROUGHT</td>
</tr>
<tr>
<td>NEW</td>
<td>OVER</td>
<td></td>
<td></td>
</tr>
<tr>
<td>care free</td>
<td>AVAILABLE IN 5, 20 &amp; 50#</td>
<td>Ideal for hillsides, deep roughs, RV parks &amp; cabin sites</td>
<td>• Perfect for difficult to manage sites</td>
</tr>
<tr>
<td>shady place</td>
<td>AVAILABLE IN 5, 20 &amp; 50#</td>
<td>Ideal for home lawns with moderate to densely shaded areas</td>
<td>• Improved shade tolerant varieties</td>
</tr>
</tbody>
</table>

Ideal for hillsides, deep roughs, RV parks & cabin sites
• Perfect for difficult to manage sites
• Thrives in infertile, dry, neglected soil or deep shade
• Prefers little to no maintenance & mowing

Ideal for home lawns with moderate to densely shaded areas
• Improved shade tolerant varieties
• Provides an even transition from shaded to full sun
• Great for revitalizing “thinned out” shaded areas

La Crosse Seed has provided us with turf seed for years. They consistently have the highest quality products and most durable turf on the market. We trust La Crosse Seed to provide the turf needed for a successful, durable and beautiful field.”

Duell Higbe, General Manager
Sioux Falls Canaries Baseball

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Duell Higbe, General Manager
Sioux Falls Canaries Baseball

RATING SCALE: 1 = WORST, 5 = BEST

ELITE VARIETIES - Many of our mixes feature elite turf varieties. An “elite” variety is an improved variety holding the most distinguished characteristics of that species. For optimal performance, look for mixes containing elite varieties in our Earth Carpet® seed guide.
Tall Fescue Based Mixes & Blends

Tall fescue based Earth Carpet® mixes offer high quality, durable turf for many conditions including low maintenance applications and in limited water or drought areas where sustainable turf and conservation are needed.

<table>
<thead>
<tr>
<th>SEEDING LBS/1,000 SQ FT</th>
<th>STRESS TOLERANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEW OVER</td>
<td>HEAT  WEAR DROUGHT TRAFFIC</td>
</tr>
<tr>
<td>green resistor&lt;sup&gt;®&lt;/sup&gt; AVAILABLE IN 5, 20 &amp; 50#</td>
<td>8 - 10 4 - 8</td>
</tr>
</tbody>
</table>

Ideal for home lawns, athletic fields & golf course roughs
- Tolerates heat & drought stress
- Excellent disease resistance – especially brown patch
- Can stay green where rainfall or irrigation is limited
- Low maintenance, high quality turf

100% Tall Fescue (4 Elite Varieties)

<table>
<thead>
<tr>
<th>SEEDING LBS/1,000 SQ FT</th>
<th>STRESS TOLERANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEW OVER</td>
<td>HEAT  WEAR DROUGHT TRAFFIC</td>
</tr>
<tr>
<td>tuff stuff&lt;sup&gt;®&lt;/sup&gt; AVAILABLE IN 5, 20 &amp; 50#</td>
<td>8 - 10 4 - 8</td>
</tr>
</tbody>
</table>

Ideal for high traffic areas & golf course roughs
- Tolerates heat, drought & poor soils
- Fast germination and establishment
- Excellent for areas where lower maintenance is desired

90% Tall Fescue (3 Elite Varieties)
10% Kentucky Bluegrass (1 Elite Variety)

<table>
<thead>
<tr>
<th>SEEDING LBS/1,000 SQ FT</th>
<th>STRESS TOLERANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEW OVER</td>
<td>HEAT  WEAR DROUGHT TRAFFIC</td>
</tr>
<tr>
<td>watertight&lt;sup&gt;®&lt;/sup&gt; H2O AVAILABLE IN 20 &amp; 50#</td>
<td>8 - 10 4 - 8</td>
</tr>
</tbody>
</table>

Ideal for sites with limited water availability
- Latest heat/disease resistance, especially brown patch
- High endophyte mix conferring better insect resistance
- Low-input, sustainable mix designed for water conservation

90% Tall Fescue (3 Elite Varieties)
10% Perennial Ryegrass (1 Elite Variety)

<table>
<thead>
<tr>
<th>SEEDING LBS/1,000 SQ FT</th>
<th>STRESS TOLERANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEW OVER</td>
<td>HEAT  WEAR DROUGHT TRAFFIC</td>
</tr>
<tr>
<td>Top Athletic AVAILABLE IN 20 &amp; 50#</td>
<td>8 - 10 4 - 8</td>
</tr>
</tbody>
</table>

Ideal for difficult to maintain sites & athletic fields
- Attractive & wear tolerant
- Requires less fertilizer & water to maintain
- Can be used in full sun or partial shade

80% Tall Fescue (3 Elite Varieties)
10% Kentucky Bluegrass (1 Elite Variety)
10% Perennial Ryegrass (1 Elite Variety)

<table>
<thead>
<tr>
<th>SEEDING LBS/1,000 SQ FT</th>
<th>STRESS TOLERANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEW OVER</td>
<td>HEAT  WEAR DROUGHT TRAFFIC</td>
</tr>
<tr>
<td>Survivor AVAILABLE IN 5, 20 &amp; 50#</td>
<td>8 - 10 4 - 8</td>
</tr>
</tbody>
</table>

Ideal for low maintenance sites
- Thrives even under constant use
- Highly stress tolerant and requires minimal care

40% Tall Fescue (2 Elite Varieties)
15% Creeping Red Fescue (1 Elite Variety)
15% Chewing Fescue (1 Elite Variety)
15% Kentucky Bluegrass (1 Elite Variety)
15% Perennial Ryegrass (1 Elite Variety)

RATING SCALE: 1 = WORST, 5 = BEST

ELITE VARIETIES - Many of our mixes feature elite turf varieties. An “elite” variety is an improved variety holding the most distinguished characteristics of that species. For optimal performance, look for mixes containing elite varieties in our Earth Carpet® seed guide.
Bentgrass

A cool season grass used almost exclusively on golf course putting greens and fairways, creeping bentgrass is characterized by persistence under extremely low cutting heights and very dense, uniform, stoloniferous growth and rapid recuperation. It requires high input maintenance and expert management to cope with resulting diseases. Bentgrass is adapted to a wide range of climates yet is susceptible to many diseases, due to the stress levels under which it performs.

AGRONOMIC INFORMATION

USES: Golf greens, tees, fairways

IDENTIFICATION: Pointed tip leaf, flat and smooth in appearance. Lighter to very dark green color, vertical growth habit, dense growth habit, tolerates very low mowing.

ESTABLISHMENT: Quick germination, aggressive to medium-aggressive growth habit, vertical growth habit without tendency to thatch. Good spring green-up, color retention and wear tolerance. High maintenance, quality turfgrass.

SEEDING RATES: 1 - 2 lbs/1,000 sq ft

GERMINATION: 5 - 10 days

GROWTH HABIT: Stolons

APPROX. SEEDS PER LB: 6,000,000 - 7,000,000

BLADE: 1 - 2 mm, pointed tip, flat, smooth
### Earth Carpet® Mixes

**PROFESSIONAL LANDSCAPE MIXES**

<table>
<thead>
<tr>
<th>Name</th>
<th>Kentucky Bluegrass</th>
<th>Perennial Ryegrass</th>
<th>Annual Ryegrass</th>
<th>Creeping Red Fescue</th>
<th>Chewings Fescue</th>
<th>Hard Fescue</th>
<th>Blue Fescue</th>
<th>Tall Fescue</th>
<th>Seeding LBS/1,000 SQ FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>choice sun &amp; shade</td>
<td>40</td>
<td>30</td>
<td>15</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4 - 6 2 - 4</td>
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<tr>
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<td>25</td>
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<td>25</td>
<td></td>
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<td>4 - 6 2 - 4</td>
</tr>
<tr>
<td>spartan® GRADE A</td>
<td>40</td>
<td>20</td>
<td></td>
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<td></td>
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<td>4 - 6 2 - 4</td>
</tr>
<tr>
<td>wear-n-tear®</td>
<td>40</td>
<td>40</td>
<td>10</td>
<td>10</td>
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<td>4 - 6 2 - 4</td>
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</table>

**GENERAL LANDSCAPE MIXES**

<table>
<thead>
<tr>
<th>Name</th>
<th>Kentucky Bluegrass</th>
<th>Perennial Ryegrass</th>
<th>Annual Ryegrass</th>
<th>Creeping Red Fescue</th>
<th>Chewings Fescue</th>
<th>Hard Fescue</th>
<th>Blue Fescue</th>
<th>Tall Fescue</th>
<th>Seeding LBS/1,000 SQ FT</th>
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</thead>
<tbody>
<tr>
<td>park place®</td>
<td>50</td>
<td>25</td>
<td>25</td>
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<td>4 - 6 2 - 4</td>
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<tr>
<td>sunny place®</td>
<td>33</td>
<td>34</td>
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<td>33</td>
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<tr>
<td>quick-2-gro</td>
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<td>4 - 6 2 - 4</td>
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<tr>
<td>michigan green®</td>
<td>15</td>
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<td>30</td>
<td>40</td>
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<td></td>
<td></td>
<td>4 - 6 2 - 4</td>
</tr>
</tbody>
</table>

**KENTUCKY BLUEGRASS & PERENNIAL RYEGRASS BASED MIXES**

<table>
<thead>
<tr>
<th>Name</th>
<th>Kentucky Bluegrass</th>
<th>Perennial Ryegrass</th>
<th>Annual Ryegrass</th>
<th>Creeping Red Fescue</th>
<th>Chewings Fescue</th>
<th>Hard Fescue</th>
<th>Blue Fescue</th>
<th>Tall Fescue</th>
<th>Seeding LBS/1,000 SQ FT</th>
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</thead>
<tbody>
<tr>
<td>blue carpet®</td>
<td>100</td>
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<td></td>
<td></td>
<td></td>
<td>2 - 4 1 - 3</td>
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<tr>
<td>pro-sports®</td>
<td>80</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 - 5 2 - 3</td>
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<tr>
<td>sports park OS</td>
<td>50</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 - 5 2 - 3</td>
</tr>
<tr>
<td>champion</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>6 - 8 3 - 5</td>
</tr>
</tbody>
</table>

**SLOPE & SHADE MIXES**

<table>
<thead>
<tr>
<th>Name</th>
<th>Kentucky Bluegrass</th>
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<th>Annual Ryegrass</th>
<th>Creeping Red Fescue</th>
<th>Chewings Fescue</th>
<th>Hard Fescue</th>
<th>Blue Fescue</th>
<th>Tall Fescue</th>
<th>Seeding LBS/1,000 SQ FT</th>
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<tbody>
<tr>
<td>care-free</td>
<td></td>
<td>35</td>
<td>40</td>
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<td>6 - 8 3 - 4</td>
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<tr>
<td>shady place®</td>
<td>20</td>
<td>20</td>
<td>30</td>
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<td></td>
<td></td>
<td>5 - 8 3 - 4</td>
</tr>
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</table>

**TALL FESCUE BASED MIXES**

<table>
<thead>
<tr>
<th>Name</th>
<th>Kentucky Bluegrass</th>
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<th>Creeping Red Fescue</th>
<th>Chewings Fescue</th>
<th>Hard Fescue</th>
<th>Blue Fescue</th>
<th>Tall Fescue</th>
<th>Seeding LBS/1,000 SQ FT</th>
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<tbody>
<tr>
<td>green resistor®</td>
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<td></td>
<td></td>
<td>100 8 - 10 4 - 8</td>
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<tr>
<td>tuff-stuff®</td>
<td>10</td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td>90 8 - 10 4 - 8</td>
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<tr>
<td>watertight® H2O</td>
<td>10</td>
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<td></td>
<td>90 8 - 10 4 - 8</td>
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<tr>
<td>top athletic</td>
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<td>80 8 - 10 4 - 8</td>
</tr>
<tr>
<td>survivor</td>
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<td>15</td>
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<td>15</td>
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<td>40 8 - 10 4 - 8</td>
</tr>
</tbody>
</table>

“We choose to sell premium brands like Earth Carpet because it helps differentiate our business in the marketplace. The way to compete with big box companies is to offer premium varieties and brands that you can’t find in many of those mainstream stores.”

Jeff G., Northeastern Missouri
<table>
<thead>
<tr>
<th>HEAT</th>
<th>WEAR</th>
<th>DROUGHT</th>
<th>TRAFFIC</th>
<th>SPREADING TECHNOLOGY</th>
<th>EXTREME RIZOMA EXPRESSION</th>
<th>SHADE TOLERANCE</th>
<th>GENETICS</th>
<th>DESCRIPTION</th>
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<tr>
<td>4</td>
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<td>3</td>
<td>4</td>
<td>ST</td>
<td>Gm</td>
<td>Gm</td>
<td>Gm</td>
<td>Ideal for establishing premium lawns or upgrading existing turf</td>
</tr>
<tr>
<td>4</td>
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<td>ST</td>
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<td>Ideal for establishing premium lawns or upgrading existing turf</td>
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<td>3</td>
<td>3</td>
<td>LXQ</td>
<td></td>
<td></td>
<td>Gm</td>
<td>Ideal for home lawns, parks &amp; school grounds</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>LXQ</td>
<td></td>
<td></td>
<td>Gm</td>
<td>Ideal for home lawns &amp; commercial landscapes</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>LXQ</td>
<td></td>
<td></td>
<td>Gm</td>
<td>Ideal for areas needing quick establishment</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>LXQ</td>
<td></td>
<td></td>
<td>Gm</td>
<td>Ideal for the Great Lakes Region &amp; easy on your budget</td>
</tr>
<tr>
<td>4</td>
<td>5</td>
<td>3</td>
<td>5</td>
<td>ST</td>
<td>Gm</td>
<td>Gm</td>
<td>Gm</td>
<td>Ideal for golf course tees, fairways &amp; fine home lawns</td>
</tr>
<tr>
<td>4</td>
<td>5</td>
<td>3</td>
<td>5</td>
<td>ST</td>
<td>Gm</td>
<td>Gm</td>
<td>Gm</td>
<td>Ideal for sports fields &amp; other high performance areas</td>
</tr>
<tr>
<td>4</td>
<td>5</td>
<td>3</td>
<td>4</td>
<td>ST</td>
<td>Gm</td>
<td>Gm</td>
<td>Gm</td>
<td>Ideal for renovating athletic fields &amp; playgrounds</td>
</tr>
<tr>
<td>4</td>
<td>5</td>
<td>3</td>
<td>4</td>
<td>ST</td>
<td>Gm</td>
<td>Gm</td>
<td>Gm</td>
<td>Ideal for renovating athletic fields &amp; high traffic areas</td>
</tr>
<tr>
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<td>2</td>
<td>4</td>
<td>3</td>
<td>ST</td>
<td>Gm</td>
<td>Gm</td>
<td>Gm</td>
<td>Ideal for hillsides, deep roughs, RV parks &amp; cabin sites</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>ST</td>
<td>Gm</td>
<td>Gm</td>
<td>Gm</td>
<td>Ideal for home lawns with moderate to densely shaded areas</td>
</tr>
<tr>
<td>5</td>
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<td>5</td>
<td>5</td>
<td>XRE+</td>
<td>Gm</td>
<td>Gm</td>
<td>Gm</td>
<td>Ideal for home lawns, athletic fields &amp; golf course roughs</td>
</tr>
<tr>
<td>5</td>
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<td>5</td>
<td>5</td>
<td>XRE+</td>
<td>Gm</td>
<td>Gm</td>
<td>Gm</td>
<td>Ideal for high traffic areas &amp; golf course roughs</td>
</tr>
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<td>5</td>
<td>5</td>
<td>XRE+</td>
<td>Gm</td>
<td>Gm</td>
<td>Gm</td>
<td>Ideal for sites with limited water availability</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>XRE+</td>
<td>Gm</td>
<td>Gm</td>
<td>Gm</td>
<td>Ideal for difficult to maintain sites &amp; athletic fields</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>5</td>
<td>5</td>
<td>ST</td>
<td>Gm</td>
<td>Gm</td>
<td>A-List</td>
<td>Ideal for low maintenance sites</td>
</tr>
</tbody>
</table>

12
Fescue, Fine

Three grasses go under the common name of fine fescue: chewings fescue, creeping red fescue and hard fescue. All survive extreme cold and combine well with other cool season grasses. None of the fine fescues tolerate wear and tear, but they have the ability to grow in dry shade. Hard fescue has a strong bunching habit that makes it appear less refined than other lawn grasses, but will persist in difficult sites that are unusually cold, windy and dry.

**AGRANOMIC INFORMATION**

**USES:** Shaded lawns, ground cover

**IDENTIFICATION:** Narrow-leaved, cool season perennial and creeping and/or bunch growth habit, found mostly in shaded areas. Leaves have folded vernation (stem) and a dull underside.

**ESTABLISHMENT:** Slow establisher like tall fescue. Ideal for shade.

**SEEDING RATES:** 4 - 6 lbs/1,000 sq ft

**GERMINATION:** 7 - 14 days*

**GROWTH HABIT:** Bunch, creeping and/or spreading, slow growing

**APPROX. SEEDS PER LB:** 500,000 - 615,000, depending on species

**BLADE:** 1 - 2 mm, pointed, needle-like tip

*Under prime conditions

---

**TRAITS RELATIVE TO SPECIES TYPE**

- **Disease resistant**
- **Use mown or unmown**
- **Tolerates neglect**
- **High turf quality under all maintenance levels**
- **Low to high maintenance turf sites**
- **Excellent performance in shade & sun**
- **Recommended for both high & low maintenance sites**
- **Superior disease resistance**
- **High levels of endophytes**
- **High rating for wear tolerance under fairway conditions**
- **Good red thread resistance under reduced inputs**
- **Highest dollar spot resistance ratings**
- **High endophyte content (85 - 90%)**

---

**Leaf tip**

**Ligule:** Clear, short

**Collar:** Smooth

**New Leaf:** Folded

---

**Blade:** Folded, boat-shaped tip
TRAITS RELATIVE TO SPECIES TYPE

• Good salt, drought & heat tolerance
• Rapid recovery from summer brown patch
• Early development of spreading rhizomes
• Fine leaf texture
• Superior brown patch resistance
• Excellent option for sports fields
• Excellent wear tolerance & recovery

Fescue, Tall
Tall fescue is a cool season grass, well adapted to sunny or partially shady areas. When densely sown, a pure stand forms a moderate to coarse textured lawn that is uniform in appearance with good weed and disease resistance. Tall fescue tolerates warm summer temperatures and stays green during cool, but not severe winter conditions. Tall fescue is a good species to plant for general lawn use.

AGRONOMIC INFORMATION

USES:
Lawns, athletic fields, commercial sites, slopes, parks, reclamation sites. Ideal in sun or shade or limited water.

IDENTIFICATION:
Deep rooted, cool season perennial bunchgrass. Grows from tillers. Leaf blades are glossy on the underside, serrated on margins. Leaf blades may be wide with rolled vernation (semi), blades smooth on turf type, coarse on others.

SEEDING RATES:
8 - 10 lbs/1,000 sq ft
14 - 18 lbs/1,000 sq ft

GERMINATION:
7 - 14 days*

GROWTH HABIT:
Bunch type, tillers, some with Rhizomes

BLADE:
2 - 5 mm, broad, spear

APPROX. SEEDS PER LB:
250,000

ESTABLISHMENT:
Slow, but not as slow as bluegrass. Needs plentiful water to establish, then very drought tolerant.

FOR MORE INFORMATION ON OTHER VARIETIES, VISIT EARTH CARPET.COM
**Kentucky Bluegrass**

Kentucky bluegrass is a cool season grass that grows best during the fall, winter and spring months when temperatures are cool. Its growth slows during the warm summer months. Kentucky bluegrass prefers full sun, but will tolerate some shade. This species is used widely throughout the U.S. where it is well adapted, but it has a poor summer performance in areas with warm to hot temperatures. When stressed by temperatures, lack of water, or poor soils, Kentucky bluegrass can be susceptible to disease and weed invasion. It can tolerate cold winters, but has a relatively low tolerance for heat and is only moderately drought tolerant. During the summer months, if stressed for water, Kentucky bluegrass can go dormant. It has moderate wear tolerance, recovering quickly from some abuse.

**AGRONOMIC INFORMATION**

**USES:** Lawns, athletic fields, commercial, golf course, high maintenance. Ideal in sun.

**IDENTIFICATION:** A dense, sod forming, long-lived, perennial cool season grass that is winter-hardy. Plants spread by rhizomes. Leaf texture is boat shaped to the tip and has a folded leaf vernation (stem) with a smooth top side and a dull underside.

**ESTABLISHMENT:** Is slow to germinate and slow to establish. Aggressive to spread and fill in once established.

**SEEDING RATES:**

<table>
<thead>
<tr>
<th></th>
<th>2 - 4 lbs/1,000 sq ft</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GERMINATION:</strong></td>
<td>14 - 28 days*</td>
</tr>
<tr>
<td><strong>GROWTH HABIT:</strong></td>
<td>Rhizomes, tillers</td>
</tr>
<tr>
<td><strong>APPROX. SEEDS PER LB:</strong></td>
<td>2,200,000</td>
</tr>
<tr>
<td><strong>BLADE:</strong></td>
<td>2 - 4 mm, boat-shaped tip</td>
</tr>
<tr>
<td><strong>Leaf tip:</strong></td>
<td>V-shaped, boat-shaped tip</td>
</tr>
<tr>
<td><strong>Ligule:</strong></td>
<td>Clear, cropped</td>
</tr>
<tr>
<td><strong>Collar:</strong></td>
<td>Smooth, yellowish-green</td>
</tr>
<tr>
<td><strong>New Leaf:</strong></td>
<td>Folded</td>
</tr>
</tbody>
</table>

*Under prime conditions

**TRAITS RELATIVE TO SPECIES TYPE**

| Variety |high seedling salt tolerance | Excellent disease resistance & shade tolerance | High wear & traffic tolerance across a wide range of climates | Very dark green genetic color | Excellent traffic tolerance | Excellent winter color | High resistance to summer patch & leaf spot | Excellent resistance to dollar spot, stem rust & pink snow mold | Fast germination | Good disease resistance to summer patch, leaf spot, pythium blight, red thread & yellow ring | Great wear tolerance | Excellent resistance to dollar spot | Excellent wear tolerance | Low thatch production | Superior drought resistance & recovery | Fast germination & establishment | Lower water use |
|---------|-----------------------------|----------------------------------------------|-----------------------------------------------------------|--------------------------------|-----------------------------|-----------------------------|---------------------------------------------|-------------------------------------------------------------|----------------|-------------------------------|-----------------|----------------------------|-----------------|---------------------|-----------------|---------------------|---------------------|---------------------|
| ARCADIA |                             |                                              |                                                           |                                |                             |                             |                                             |                                                             |               |                                |                 |                                |                 |                    |                 |                    |                     |                    |
| FIELDER |                             |                                              |                                                           |                                |                             |                             |                                             |                                                             |               |                                |                 |                                |                 |                    |                 |                    |                     |                    |
| SR 2100 |                             |                                              |                                                           |                                |                             |                             |                                             |                                                             |               |                                |                 |                                |                 |                    |                 |                    |                     |                    |
| SR 2150 |                             |                                              |                                                           |                                |                             |                             |                                             |                                                             |               |                                |                 |                                |                 |                    |                 |                    |                     |                    |
Perennial Ryegrass

Ryegrasses were brought to the U.S. from Europe and are now grown and planted throughout the country. Ryegrasses (both annual and perennial) can be grown on their own in the northern states for lawns. In many areas of the country, largely because this grass is so versatile, it is incorporated in seeding mixes with other grasses.

AGRONOMIC INFORMATION

USES: Lawns, athletic fields, golf course, all general use. Excellent when used in mixes. Ideal in sun and tolerates partial shade.

IDENTIFICATION: A fast growing bunch type grass that spreads by tillers (stems). Leaves are dark green and glossy on the underside, tapered, pointed with a folded vernation (stem). Varieties available both as annuals, intermediates and perennials.

ESTABLISHMENT: Germinates and establishes very quickly. Fills by tillers. Popular over-seeder because of quick germ.

SEEDING RATES: 6 - 8 lbs/1,000 sq ft

GERMINATION: 5 - 10 days*

GROWTH HABIT: Bunch type, tillers

APPROX. SEEDS PER LB: 270,000

BLADE: 2 - 4 mm, glossy underside, red base at crown

*Under prime conditions

TRAITS RELATIVE TO SPECIES TYPE

- Summer stress tolerant
- Disease resistant
- Lower growth

- Spreading perennial ryegrass
- Gray leaf spot resistant
- Insect resistant
- Wear tolerant

- Fast establishment
- Excellent traffic tolerance
- Greater percent living ground cover during stressful summer months
- Rapid tillering for excellent wear tolerance
- Excellent melting-out resistance along with good overall disease resistance

- Super-fast germination
- Gray leaf spot resistant
- Insect resistant
- Wear tolerant

- Early development of spreading rhizomes
- Excellent seedling & mature plant salt tolerance
- Disease resistance results in fewer fungicide applications
- High levels of viable endophyte for insect control & stress tolerance
- Highest gray leaf spot resistance

- Seedling vigor
- Germinates under cooler soil temperatures
- Drought tolerant
- Cold & wear tolerant
- Dark green color
Erosion Control - HydroMulch

PROMATRIX
Erosion control for slopes ranging from mild to steep (≤2H:1V) with a typical application rate of 3500 - 4000 lbs/acre. Once applied and cured, forms an intimate bond with the soil surface to create a continuous, porous, absorbent and flexible erosion-resistant blanket that allows for rapid germination and accelerated plant growth.

FLEXTERRA FGM (FLEXIBLE GROWTH MEDIUM)
Erosion control for slopes ranging from mild to severe (≤0.25H:1V) with a typical application rate of 3500 - 4000 lbs/acre. Flexterra FGM rapidly sets a standard of excellence for controlling erosion and establishing vegetation on severe slopes.

TERRAMULCH 80/20
Great for general seeding (≤4:1) with a typical application rate of 1500 - 2000 lbs/acre. TerraMulch 80/20 can be used in all machines and is high quality; clean, 100% cellulose fiber mixes in water at an accelerated rate and stays in suspension for more uniform consistency. Provides control that is superior to straw for nearly the same cost — making it ideal for general seeding.

TERRAMULCH 70/30
Erosion control and revegetation for mild slopes (≤3H:1V) with a typical application of 2000 - 2500 lbs/acre. Covers up to 20% more ground than cellulose and provides superior erosion control and more complete germination without a big jump in price.

CONWED 1000
Ideal choices for critical sites up to 2:1 slopes with a typical application of 2000 - 2500 lbs/acre. Thermally Refined® wood fiber mulch delivers up to 50% more water-holding capacity than atmospherically refined wood mulch for superior, more cost-effective performance. TriFlo additives provide better yield, easier shooting and increased distance.

CONWED 2000
Erosion control and revegetation for moderate slopes (≤2H:1V), 100% wood fiber just like Conwed 1000 with the addition of a premium tackifier. Tackifier is a pre-blended, high-viscosity, organic polysaccharide tackifier for superior erosion control performance. All-in-one package eliminates the extra step and potential errors associated with mixing tackifiers.

COVERGROW™
CoverGrow™ is an advanced technology granular mulch made from recycled wood and cellulose fibers. Once applied to a seeded area and activated by water, the granules quickly expand and disperse to provide outstanding protection and water-holding performance right where it’s needed. Whether you’re spot treating smaller bare spots or hydroseeding larger areas, CoverGrow™ is the easy and convenient way to establish vegetation.

TACKING AGENT 3
Typical application rate of 30 - 60 lbs/acre. Requires no cure time to be effective! University tests and field use prove it effectively reduces soil erosion and water runoff immediately after hydroseeding. Also increases the water holding capacity of all types of hydraulic mulches.

PAM-12 Plus® can also be used as hydromulch. See opposite page for details.
Erosion Control - Granular

**Lawn Starter™ Pro**
Lawn Starter™ Pro is an effective seed establishment mulch that will improve your revenue because of its efficient application.

<table>
<thead>
<tr>
<th>SUPERIOR PERFORMANCE</th>
<th>EASE OF USE</th>
<th>COST EFFECTIVENESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Keeps soil, seed &amp; fertilizer on site</td>
<td>• Convenient to store &amp; handle</td>
<td>• Double the coverage of other granular mulches</td>
</tr>
<tr>
<td>• Visible watering guide optimizes water use</td>
<td>• Flows well through spreaders</td>
<td>• No need for expensive equipment</td>
</tr>
</tbody>
</table>

**ADDITIONAL BENEFITS**
• No messy straw to apply or clean up
• No noxious weeds to contaminate the site

**LAWN STARTER™ PRO APPLICATION INDEX**
• Application rates & methods may vary based on site conditions such as slope, soil type, physical state and chemical properties of the soil and time of year
• Application rates may vary based on desired visual appearance
• Lawn Starter™ Pro granules are activated by natural or applied moisture
• It is recommended that seeding is done prior to the application of Lawn Starter™ Pro & in a manner that ensures direct contact with the soil on a well prepared seedbed

<table>
<thead>
<tr>
<th>SLOPE</th>
<th>LBS/1,000 SQ. FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Slope 4:1</td>
<td>25 - 50</td>
</tr>
<tr>
<td>Greater than 4:1</td>
<td>Use PAM - 12® Plus</td>
</tr>
</tbody>
</table>

**PAM-12® Plus**
PAM-12® Plus is a superior soil stabilizer that is easy to use and cost effective.

<table>
<thead>
<tr>
<th>SUPERIOR PERFORMANCE</th>
<th>EASE OF USE</th>
<th>COST EFFECTIVENESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Proven by ASTM D 6459 standards</td>
<td>• Uniformly applied right out of bag</td>
<td>• Ease of use, saves time &amp; money</td>
</tr>
<tr>
<td>• Effective across a wide spectrum of soils</td>
<td>• Includes visible tracer</td>
<td></td>
</tr>
</tbody>
</table>

**ADDITIONAL BENEFITS**
• Improves seed germination and plant growth (ECTC Method # 4)
• Minimizes sediment loss
• No messy straw or introduction of noxious weed seed

**PAM-12® PLUS APPLICATION INDEX**
• Application rates & methods may vary based on site conditions such as slope, soil type, physical state and chemical properties of the soil and time of year
• Application rates may vary based on desired visual appearance
• Slope interruption devices are recommended on slopes exceeding 40 feet in length
• PAM-12 Plus® granulas are activated by natural or applied moisture
• It is recommended that seeding is done prior to the application of PAM-12® Plus & in a manner that ensures direct contact with the soil on a well prepared seedbed

<table>
<thead>
<tr>
<th>SLOPE</th>
<th>LBS/ACRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Slope 4:1</td>
<td>1,000</td>
</tr>
<tr>
<td>4:1 - 3:1</td>
<td>1,000 - 2,000</td>
</tr>
<tr>
<td>3:1 - 2:1</td>
<td>2,000 - 3,000</td>
</tr>
</tbody>
</table>

**Additional Erosion Control Products**

**BLANKETS & BIO LOGS**
- S31 (straw blanket) 8' x 112.5' = 100 sq. yards
- S32 (straw blanket)* 8' x 112.5' = 100 sq. yards
- SC32 (70% straw/30% coconut)* 8’ x 112.5’ = 100 sq. yards
- C32 (100% coconut)* 8’ x 112.5’ = 100 sq. yards
- Futerra® Natural (wood fiber) 6.83’ x 135’ = 102.5 sq. yards
- Bio Sediment Logs 9’ x 25’
- Straw Wattles 9’ x 20’ & 12’ x 25’

*Double Netted Products

**RIP RAP FABRIC**
- Heavy (12 oz.) 15’ x 300’ = 500 sq yds/roll
- Medium (8 oz.) 15’ x 300’ = 500 sq yds/roll
- Light (7 oz.) 15’ x 300’ = 500 sq yds/roll
- Very Light (4 oz.) 12.5’ x 360’ = 500 sq yds/roll
  15’ x 360’ = 600 sq yds/roll

**OTHER PRODUCTS**
- Dimex Pro Lip Edging 20’ strips with stake kits
- Weed Barrier 3’ x 300’ = 100 sq yds
- Weed Barrier 4’ x 300’ = 133.33 sq yds
- Weed Barrier 6’ x 300’ = 200 sq yds
- Stake Kits 4 Stakes + 1 connector/pkg
- Staples 1 Box = 1,000 staples
- Silt Fence 3’ x 100’

**CURLEX BLANKETS AVAILABLE ON REQUEST**

WE CARRY A FULL LINE OF EROSION PRODUCTS. FOR MORE INFORMATION, CALL 800.356.SEED.
Brier Ridge® products have been formulated to provide superior performance in establishing, attracting and keeping those trophy bucks, turkeys and upland birds on your property.

Go to brierridgeplotseed.com for planting windows and other useful information.

<table>
<thead>
<tr>
<th>NAME</th>
<th>BRASSICAS</th>
<th>LEGUMES</th>
<th>GRASSES</th>
<th>WILDFLOWERS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>BULLS-EYE DEER TURNIPS</td>
<td>• Early fall planted annual turnip blend offering early/late fall food source</td>
<td>• Performs well on light to heavy soil types in light shade to full sun</td>
<td>• Turnips will remain green until 10°F</td>
<td>• Optimally planted 6-8 weeks prior to killing frost, sugars will flush vegetative growth after frost, making it an appealing food source</td>
<td>ANNUAL 2 Lbs Per ¼ Acre</td>
</tr>
<tr>
<td>DEER CANDY SUGAR BEETS</td>
<td>• Late spring planted annual offering early/late fall food source</td>
<td>• Performs well on medium to heavy, well drained soils in full sun</td>
<td>• Provides high energy food source from vegetation &amp; root</td>
<td>• Unique blend of turnips provide extensive above &amp; below ground growth</td>
<td>ANNUAL 2 - 3 (Drilled)</td>
</tr>
<tr>
<td>8847 GT1 FORAGE SOYBEANS</td>
<td>• Spring/fall planted annual species offering spring/summer/fall food source</td>
<td>• Performs well on light to heavy soil types in light shade to full sun</td>
<td>• Glyphosate tolerant, late maturity soybean stays green longer</td>
<td>• Increased plant height</td>
<td>ANNUAL 140,000 Seeds/Acre</td>
</tr>
<tr>
<td>PLOT SPIKE® FORAGE OATS</td>
<td>• Summer planted annual offering cover for upland game birds, migratory birds &amp; deer</td>
<td>• Performs well on light to heavy soil types in light shade to full sun</td>
<td>• Quick to establish, requires 60-65°F soil temps for planting/germination</td>
<td>• Food source for various bird species later in fall/winter</td>
<td>ANNUAL 6 - 8 (Drilled)</td>
</tr>
<tr>
<td>WILDLIFE GRAIN SORGHUM (DWARF TYPE)</td>
<td>• Spring planted annual offering cover &amp; food source for upland game birds</td>
<td>• Performs well on light to heavy soil types in light shade to full sun</td>
<td>• Drought tolerant</td>
<td>• Food source for various bird species later in fall/winter</td>
<td>ANNUAL 6 - 8 (Drilled)</td>
</tr>
<tr>
<td>WILDLIFE SUNFLOWER (PEREDOVIK TYPE)</td>
<td>• Summer annual mix planted as bedding/buffer source</td>
<td>• Performs well on light to heavy soil types in light shade to full sun</td>
<td>• Quick to establish, requires 60 - 65°F soil temps for planting/germination, annual alternative to Perennial Habitat Hide-A-Way</td>
<td>• Can reach heights up to 8 ft tall</td>
<td>ANNUAL HABITAT HIDE-A-WAY</td>
</tr>
<tr>
<td></td>
<td>• Spring/fall planted native grass perennial mix offering year-round bedding/buffer source</td>
<td>• Performs well on light to heavy soil types in light shade to full sun</td>
<td>• Maintenance needed during slow establishment period; alternative to Annual Habitat Hide-A-Way</td>
<td>• Will reach heights up to 8 ft tall</td>
<td>60% Summer Select® Forage Sorghum</td>
</tr>
<tr>
<td></td>
<td>• 60% Wildlife Grain Sorghum</td>
<td>• 30% Wildlife Sunflowers</td>
<td>• 33% Indianagrass</td>
<td>• 33% Big Bluestem</td>
<td>10%</td>
</tr>
</tbody>
</table>

Consistently taking world-class whitetails begins with two qualities: genetics and nutrition. Our neighborhood has the genetics and Brier Ridge® provides us with the nutrition. Quality seed with excellent germination and strong vigor gives our food plots that extra edge by providing the necessary nutrients to grow the maximum amount of horn the genetics allow.”

Bob H., Central Iowa
### Food Plot Mixes

#### AUTUMN ENERGY
- Early fall planted annual species offering early/late fall food source
- Performs well on light to heavy soil types in light shade to full sun
- Portion remains green until air temps reach 10 - 15°F
- Optimally planted 6 - 8 weeks prior to killing frost

<table>
<thead>
<tr>
<th>ANNUAL/PERENNIAL</th>
<th>SEEDING RATE (LBS/ACRE)</th>
<th>BRASSICAS</th>
<th>LEGUMES</th>
<th>GRASSES</th>
<th>WILDFLOWERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANNUAL</td>
<td>40 - 50</td>
<td></td>
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</tbody>
</table>

- **Seeding Rate:** 25 Lbs/acre
- **Bag Size:** 10 Lbs

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#### BUCK’S BANQUET
- Early fall planted annual & perennial species offering early/late fall food source
- For medium to heavy soil types in light shade to full sun
- Clover/chicory remain perennial after brassicas winterkill
- Portion remains green until air temps reach 10 - 15°F
- Optimally planted 6 - 8 weeks prior to killing frost

<table>
<thead>
<tr>
<th>ANNUAL/PERENNIAL</th>
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<th>GRASSES</th>
<th>WILDFLOWERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANNUAL</td>
<td>10</td>
<td></td>
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</tbody>
</table>

- **Seeding Rate:** 10 & 5 Lbs
- **Bag Size:** 10 Lbs

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#### DEER COUNTRY POINT BUILDER PLUS
- Spring/fall planted perennial mix offering year-round food source
- Performs well on medium to heavy soil types in light shade to full sun
- Includes high sugar perennial grass & high energy legumes

<table>
<thead>
<tr>
<th>ANNUAL/PERENNIAL</th>
<th>SEEDING RATE (LBS/ACRE)</th>
<th>BRASSICAS</th>
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<th>GRASSES</th>
<th>WILDFLOWERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANNUAL</td>
<td>15</td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

- **Seeding Rate:** 20 - 25 Lbs/acre
- **Bag Size:** 25 Lbs

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#### DEER COUNTRY FIELD MIX
- Spring/fall planted perennial mix offering year-round food source
- Performs well on medium to heavy soil types in light shade to full sun
- Includes high energy legumes that will thrive in various geographical locations

<table>
<thead>
<tr>
<th>ANNUAL/PERENNIAL</th>
<th>SEEDING RATE (LBS/ACRE)</th>
<th>BRASSICAS</th>
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<th>GRASSES</th>
<th>WILDFLOWERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANNUAL</td>
<td>10</td>
<td></td>
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</tr>
</tbody>
</table>

- **Seeding Rate:** 20 - 25 Lbs/acre
- **Bag Size:** 25 Lbs

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#### DEER COUNTRY TRAIL MIX
- Spring/fall planted perennial mix offering year-round food source
- Performs well on medium to heavy soil types in light shade to full sun
- Includes high energy legumes that will thrive in various geographical locations
- Chicory will thrive during summer months

<table>
<thead>
<tr>
<th>ANNUAL/PERENNIAL</th>
<th>SEEDING RATE (LBS/ACRE)</th>
<th>BRASSICAS</th>
<th>LEGUMES</th>
<th>GRASSES</th>
<th>WILDFLOWERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANNUAL</td>
<td>10</td>
<td></td>
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</tr>
</tbody>
</table>

- **Seeding Rate:** 15 - 20 Lbs/acre
- **Bag Size:** 25 Lbs

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#### HORN HONEY
- Spring/fall planted perennial mix offering year-round food source
- Performs well on medium to heavy soil types in light shade to full sun
- Includes shade tolerant species

<table>
<thead>
<tr>
<th>PERENNIAL</th>
<th>SEEDING RATE (LBS/ACRE)</th>
<th>BRASSICAS</th>
<th>LEGUMES</th>
<th>GRASSES</th>
<th>WILDFLOWERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PERENNIAL</td>
<td>10</td>
<td></td>
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</tr>
</tbody>
</table>

- **Seeding Rate:** 10 Lbs
- **Bag Size:** 5 Lbs

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#### RUT N READY
- Early fall planted annuals offer early/late fall food source
- For light to heavy soil types in light shade to full sun
- Brassicas remain green until air temps reach 10 - 15°F
- Optimally planted 6 - 8 weeks prior to killing frost
- Brassicas attract deer early fall & after killing frost

<table>
<thead>
<tr>
<th>ANNUAL</th>
<th>BRASSICAS</th>
<th>LEGUMES</th>
<th>GRASSES</th>
<th>WILDFLOWERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANNUAL</td>
<td>8</td>
<td>8 &amp; 4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Seeding Rate:** 30% Tillage Radish®
- **Bag Size:** 10 Lbs

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#### SUCRASEED® SWEET SPOT
- Early fall planted annual & perennial mix offering year-round food source
- Performs well on medium to heavy soil types in light shade to full sun
- Quick to establish & able to withstand heavy grazing
- Includes grasses with higher sugar content & higher energy legumes

<table>
<thead>
<tr>
<th>ANNUAL/PERENNIAL</th>
<th>SEEDING RATE (LBS/ACRE)</th>
<th>BRASSICAS</th>
<th>LEGUMES</th>
<th>GRASSES</th>
<th>WILDFLOWERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANNUAL</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Seeding Rate:** 10 Lbs
- **Bag Size:** 5 Lbs

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#### BRASSICAS
- Includes shade tolerant species
- Performs well on medium to heavy soil types in light shade to full sun
- Very quick & easy establishment
- Includes shade tolerant species

<table>
<thead>
<tr>
<th>ANNUAL/PERENNIAL</th>
<th>SEEDING RATE (LBS/ACRE)</th>
<th>BRASSICAS</th>
<th>LEGUMES</th>
<th>GRASSES</th>
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<tbody>
<tr>
<td>ANNUAL</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Seeding Rate:** 10 Lbs
- **Bag Size:** 5 Lbs

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#### LEGUMES
- Performs well on medium to heavy soil types in light shade to full sun
- Very quick & easy establishment
- Includes shade tolerant species

<table>
<thead>
<tr>
<th>ANNUAL/PERENNIAL</th>
<th>SEEDING RATE (LBS/ACRE)</th>
<th>BRASSICAS</th>
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<th>GRASSES</th>
<th>WILDFLOWERS</th>
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<tbody>
<tr>
<td>ANNUAL</td>
<td>10</td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Seeding Rate:** 10 Lbs
- **Bag Size:** 5 Lbs

---

#### GRASSES
- Performs well on light to heavy soil types in shade to full sun
- Quick to establish & able to withstand heavy grazing
- Includes grasses with higher sugar content & higher energy legumes

<table>
<thead>
<tr>
<th>ANNUAL/PERENNIAL</th>
<th>SEEDING RATE (LBS/ACRE)</th>
<th>BRASSICAS</th>
<th>LEGUMES</th>
<th>GRASSES</th>
<th>WILDFLOWERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANNUAL</td>
<td>10</td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Seeding Rate:** 10 Lbs
- **Bag Size:** 5 Lbs

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#### WILDFLOWERS
- Performs well on light to heavy soil types in light shade to full sun
- Quick to establish & able to withstand heavy grazing
- Includes grasses with higher sugar content & higher energy legumes

<table>
<thead>
<tr>
<th>ANNUAL/PERENNIAL</th>
<th>SEEDING RATE (LBS/ACRE)</th>
<th>BRASSICAS</th>
<th>LEGUMES</th>
<th>GRASSES</th>
<th>WILDFLOWERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANNUAL</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Seeding Rate:** 10 Lbs
- **Bag Size:** 5 Lbs

---

#### THINGS TO CONSIDER
- Brassicas attract deer early fall & after killing frost
- After killing frost, sugars flush vegetative growth after frost for appealing food source
- Brassicas remain green until air temps reach 10 - 15°F
- Optimally planted 6 - 8 weeks prior to killing frost
- Performs well on light to heavy soil types in shade to full sun
- Includes grasses with higher sugar content & higher energy legumes
- Performs well on light to heavy soil types in shade to full sun
- Performs well on medium to heavy soil types in light shade to full sun
- Performs well on medium to heavy soil types in light shade to full sun
- Performs well on medium to heavy soil types in light shade to full sun
So what do those three fertilizer numbers mean? They represent three nutrients essential to strong, healthy turfgrass: nitrogen, phosphorus and potassium (potash). In a fertilizer analysis, these three nutrients are always listed in the same order. An easy way to remember what those nutrients do is “up, down, all around.”

- **NITROGEN (N) - UP** promotes dark green color and increases leaf and stem growth.
- **PHOSPHORUS (P) - DOWN** stimulates early root formation and growth and prepares grass for dormancy and winter hardiness.
- **POTASSIUM OR POTASH (K) - ALL AROUND** provides overall health to grass, increasing resistance to disease and drought stress.

**SIGNS OF NITROGEN DEFICIENCY**
Nitrogen is represented by the first number. Telltale signs of nitrogen deficiency are:
- Overall reduction in plant growth
- Loss of green color, yellowish-green color starting at the leaf tips
- Thinning of plants, overall plant density & coverage decreases

**THERE ARE TWO TYPES OF NITROGEN FERTILIZERS:**
- **FAST RELEASE**
  - Typically found in agricultural fertilizers
  - Works for 7 - 12 days
  - Fast release is almost too fast for turfgrass because nutrients often pass on through soil before roots can absorb them
- **SLOW RELEASE**
  - Optimal for turfgrass
  - Works for 3 - 12 weeks
  - Nutrients stay in root zone long enough for plant to absorb them, so less is wasted

**SIGNS OF PHOSPHORUS DEFICIENCY**
Phosphorus, the second number, is a key nutrient in seed starter fertilizers because it stimulates root growth. Telltale signs of phosphorus deficiency are:
- Dark green color on lower leaves only
- Purplish color on leaf edges
- Spindly, weak growth
- Little to no root system formed

**2 BIG QUESTIONS TO ASK WHEN CHOOSING FERTILIZER:**
1. What are the results of your soil analysis?
2. What, if any, problems have you experienced in the past with this lawn (yellowing or failure to thrive)?

**TEST, DON’T GUESS** – There’s simply no substitute for a soil test. Soil testing identifies what the soil needs and doesn’t need, such as more lime or less potassium. It offers clues as to which seeds and fertilizer will give customers the best results. It only takes minutes, but the benefits last all season long.

**IDEAL pH FOR TURFGRASS IS 6.5 - 6.8**
Ideal pH means plants have the maximum ability to use the nutrients from soil. Otherwise, it’s as if the nutrients are locked up and unavailable for the plants, so the plants can never reach their full potential. Fortunately, there are ways to correct pH balance. Lime raises soil pH. Granulated sulfur lowers soil pH.

**NUTRIENT AVAILABILITY**

<table>
<thead>
<tr>
<th>NITROGEN</th>
<th>PHOSPHORUS</th>
<th>POTASSIUM</th>
<th>SULFUR</th>
<th>CALCIUM</th>
<th>MAGNESIUM</th>
<th>IRON</th>
<th>MANGANESE</th>
<th>BORON</th>
<th>COPPER AND ZINC</th>
<th>MOLYBDENUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0</td>
<td>5.0</td>
<td>6.0</td>
<td>7.0</td>
<td>8.0</td>
<td>9.0</td>
<td></td>
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</tbody>
</table>

**MOST PLANT NUTRIENTS ARE AVAILABLE IN THE pH RANGE OF 6.0-7.0.**
Phosphorus, the second number, is a key nutrient in seed starter fertilizers.

**SIGNS OF PHOSPHORUS DEFICIENCY**

There are two types of nitrogen fertilizers:

1. Fast release
2. Slow release

Nitrogen is represented by the first number. Telltale signs of nitrogen deficiency include:

- Dark green color on lower leaves only

**SIGNS OF NITROGEN DEFICIENCY**

- Little to no root system formed
- Spindly, weak growth
- Thinning of plants, overall plant density & coverage decreases

**SIGNS OF POTASSIUM DEFICIENCY**

- Loss of green color, yellowish-green color starting at the leaf tips
- Overall reduction in plant growth
- Failure to flower

Potassium, the third number, contributes to overall health and enables the plant to tolerate heat, drought, cold and wear. It also aids in disease resistance and helps move nutrients throughout the plant.

**NUTRIENT AVAILABILITY**

Most plant nutrients are available in the pH range of 6.0-7.0. Sulfur lowers soil pH.

**TEST, DON’T GUESS**

Obtain soil test to identify essential soil needs/amendments (lime, potassium, phosphorus, etc.). Add needed amendments per test.

**MEASURING AREA**

Measure area to be seeded - Total square footage of lot less non-lawn areas such as house, walkways and gardens.

**NEW LAWN STEPS**

1. **Rough Grade** - Remove golf ball size+ rocks or debris. Lot slope should move downhill from house to lot edge. Level high/low areas.
2. **Final Grade** - Rake and smooth. Apply a fine mist from hose to soil before seeding. No puddles should form.
3. **Scalp lawn down as close as possible** - Mow as low as possible without stalling mower. Rake and remove clippings.
4. **Core aerate lawn to encourage abundant root growth. Plant new seed no deeper than 1/8 inch deep with mechanical planting equipment** - Equipment should be available for rental in your area.
5. **Apply seed evenly in two directions** - First north & south then west & east. Use seeding rate appropriate for your mix.
6. **Apply starter fertilizer** - Important for root development.
7. **Roll surface** - Use an unfilled lawn roller to firm, but not over pack, the soil surface.
8. **Irrigate frequently at least 3 times/day for 6 weeks** - Keep top ½ inch of soil moist, not soaking. Pay attention that soil does not dry in afternoon heat.
9. **Apply 2nd application of starter fertilizer 3 weeks after seeding (CRUCIAL).**
10. **Begin weekly mowing when at 1 ½ to 2 inches** - Set height to 1 ½ inches. Mowing right after irrigation may hurt seedlings.
11. **Raise mowing height to 3 to 3 ½ inches after 6 weeks** - Never remove more than ½ of grass blade at a time.
12. **Begin standard fertilization/irrigation programs at 8 weeks** - Do not apply weed control products until lawn has been mowed at least 4 times & 8 weeks has passed.

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**Coverage Areas**

**GOLF COURSE**
- Green 4 - 7,000 sq ft
- Tee 3,000 - 8,000 sq ft
- Fairway 3 - 6 acres

**FOOTBALL FIELD**
- 160’ x 360’ = 57,600 sq ft

**BASEBALL DIAMOND**
- Infield area - 90’x90’ = 8, 100 sq ft
- Home plate to L 300’ - 360’
- Home plate to C 360’ - 410’
- Home plate to R 300’ - 360’
- Mound to home plate = 60’6”
- Home plate to 1st = 90’
- Home plate to 2nd 127’ 3¾”
- Home plate to 3rd 90’

**TENNIS COURT**
- Regulation 78’x 36’ = 2,808 sq ft
- Full 120’ x 60’ = 7,200 sq ft
- Home plate to 1st 90’
- Home plate to C 360’ - 410’
- Home plate to 2nd 127’ 3¾”
- Home plate to 3rd 90’

**SOCCER PITCH**
- Small 195’ x 330’ = 64,350 sq ft
- Large 225’ x 360’ = 81,000 sq ft

**RUGBY PITCH**
- 328’ x 226’ = 74,128 sq ft.

**HOCKEY PITCH**
- Small 301’ x 164’ = 49,364 sq ft.
- Large 300’ x 180’ = 54,000 sq ft.

**CRICKET SQUARE**
- 90’ x 90’ = 8,100 sq ft.

**CROQUET**
- 75’ x 40’ = 3,000 sq ft.

**LAWN BOWLING**
- Minimum 110’ x 110’ = 12,100 sq ft.
- Maximum 125’ x 110’ = 13,750 sq ft.

**VOLLEYBALL**
- 30’ x 60’ = 1,800 sq ft.

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**Metric Conversion**

**REFERENCE**

- **1 Inch = 2.540 cm**
- **1 Foot (12 in) = 0.3048 m**
- **1 Mile = 1.609 km**
- **1 Hectare (ha) = 2.471 acres**
- **1 Acre (43,560 sq ft) = 0.4047 ha**
- **1 Kilometer (km) = 0.6214 mi**
- **1 Meter (m) = 39.37 in**
- **1 kilogram (kg) = 2.205 lbs**
- **1 Metric ton (mt) = 0.446 US ton/ac**
- **1 Kilogram (kg) = 2.205 lbs**
- **1 US ton/ac = 2.242 mt/ha**

**HELPFUL CONVERSION**

- Pounds per 1,000 sq ft to g/sq m
- **Multiply pounds by 4.8826 – g/sq m**
- Pounds per acre to kg/ha
- **Multiply pounds by 1.12**

**Temperature**

- °C x 1.8 + 32 = °F
- (°F - 32) x 555 = °C
BRAND X

Stand Out. In A Bad Way.

Landscapes get noticed. Don’t get burned by cheap seed.